

## PATENT COOPERATION TREATY

PCT

期限：8月6日

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P05135200	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/JP2005/002965	International filing date (day/month/year) 17/02/2005	(Earliest) Priority Date (day/month/year) 17/02/2004
Applicant  HONDA MOTOR CO., LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.  
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☐ the text is approved as submitted by the applicant.  
☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 7  
☐ as suggested by the applicant.  
☒ as selected by this Authority, because the applicant failed to suggest a figure.  
☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002965

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A valve train includes a primary rocker arm 50 oscillating about a primary oscillating center line L4 in response to the rotation of an inlet cam 21, a secondary rocker arm 60 oscillating about a secondary oscillating center line L5 so as to transmit a valve drive force via the primary rocker arm 50 to the inlet valve 14 and a holder 30 which supports the primary and secondary rocker arms 50, 60 in an oscillatory fashion in such a manner that the primary and secondary oscillating center lines L4, L5 oscillate together. A cam profile 55 has a lost motion profile 55a and a drive profile 55b formed on an abutment portion 54 of the primary rocker arm 50. A sectional shape of the lost motion profile 55a is an arc-like shape which is formed about the primary oscillating center line L4.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2005/002965

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 F01L13/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 12, 12 December 2002 (2002-12-12) & JP 2002 235515 A (SUZUKI MOTOR CORP), 23 August 2002 (2002-08-23) abstract; figures 1-3,5-8 -----	1,14,15
A	EP 1 039 103 A (BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT) 27 September 2000 (2000-09-27) paragraph '0001! paragraph '0011! figures 1-3 ----- -/--	1,14,15

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

**\* Special categories of cited documents :**

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

27 June 2005

Date of mailing of the international search report

06/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Paquay, J

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CA 2 486 440 A1 (YAMAHA HATSUDOKI KABUSHIKI KAISHA) 27 November 2003 (2003-11-27) page 1, lines 1-4 page 14, lines 16-21 figures 1-12 -----	1, 14, 15
A	WO 2004/009967 A (IFT HUNGARIA KFT; TOTH, GYULA; MERCZ, JOZSEF) 29 January 2004 (2004-01-29) page 1, lines 1,2 figures 1-7 -----	1, 14, 15
A	GB 2 186 337 A (FREDERICK MICHAEL * STIDWORTHY) 12 August 1987 (1987-08-12) page 1, lines 4-8 page 2, line 105 - page 3, line 16 figures 1-9 -----	1, 14, 15
A	US 2002/007809 A1 (MIYAZATO YOSHIAKI ET AL) 24 January 2002 (2002-01-24) paragraph '0001! figures 1-9 -----	1, 14, 15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2005/002965

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2002235515	A	23-08-2002	NONE	
EP 1039103	A	27-09-2000	DE 19913742 A1 DE 50008179 D1 EP 1039103 A2 ES 2224939 T3	28-09-2000 18-11-2004 27-09-2000 16-03-2005
CA 2486440	A1	27-11-2003	AU 2003244097 A1 EP 1515009 A1 WO 03098013 A1	02-12-2003 16-03-2005 27-11-2003
WO 2004009967	A	29-01-2004	HU 0202368 A2 AU 2003249101 A1 WO 2004009967 A1	29-03-2004 09-02-2004 29-01-2004
GB 2186337	A	12-08-1987	AU 6932987 A CN 87101609 A EP 0262159 A1 WO 8704757 A1	25-08-1987 21-10-1987 06-04-1988 13-08-1987
US 2002007809	A1	24-01-2002	JP 2002038913 A DE 10135201 A1	06-02-2002 07-02-2002